

Title (en)  
ABNORMAL BLOOD OXYGENATION LEVEL MONITORING SYSTEM AND METHOD, AND SELF-MONITORING OXYGENATION SYSTEM AND METHOD

Title (de)  
SYSTEM UND VERFAHREN ZUR ÜBERWACHUNG VON ANORMALEM BLUTSAUERSTOFFGEHALT UND SELBSTÜBERWACHENDES SAUERSTOFFGEHALTSSYSTEM UND VERFAHREN

Title (fr)  
SYSTÈME ET PROCÉDÉ DE SURVEILLANCE DE NIVEAU D'OXYGÉNATION SANGUINE ANORMALE, ET SYSTÈME ET PROCÉDÉ D'OXYGÉNATION À AUTO-SURVEILLANCE

Publication  
**EP 3790467 A4 20220608 (EN)**

Application  
**EP 19799916 A 20190510**

Priority  
• US 201862670291 P 20180511  
• CA 2019050637 W 20190510

Abstract (en)  
[origin: WO2019213783A1] Described are various embodiments of a self-monitoring oxygenation system and method. In one embodiment, a system is provided for monitoring for abnormal blood oxygenation levels. The system comprises: an optical spectroscopy probe for acquiring blood oxygenation data representative of deoxyhemoglobin levels over time; and a digital data processor operatively connected to said probe and programmed to: monitor relative variations in said deoxyhemoglobin levels to output a signal representative of a higher health risk rating of hyperoxia.

IPC 8 full level  
**A61B 5/1455** (2006.01); **A61B 5/00** (2006.01); **A61B 5/0205** (2006.01); **A61B 5/083** (2006.01); **G16H 50/20** (2018.01); **A61B 5/145** (2006.01); **A61B 5/16** (2006.01); **A61B 5/18** (2006.01)

CPC (source: EP US)  
**A61B 5/0075** (2013.01 - EP); **A61B 5/0205** (2013.01 - EP); **A61B 5/02055** (2013.01 - US); **A61B 5/14551** (2013.01 - EP); **A61B 5/14553** (2013.01 - US); **A61B 5/318** (2021.01 - US); **A61B 5/369** (2021.01 - US); **A61B 5/4845** (2013.01 - US); **A61B 5/6803** (2013.01 - EP); **A61B 5/681** (2013.01 - EP); **A61B 5/6814** (2013.01 - US); **A61B 5/7275** (2013.01 - EP US); **A61B 5/742** (2013.01 - US); **G16H 20/30** (2018.01 - EP); **G16H 40/63** (2018.01 - EP); **G16H 50/30** (2018.01 - EP); **A61B 5/021** (2013.01 - US); **A61B 5/024** (2013.01 - US); **A61B 5/0816** (2013.01 - US); **A61B 5/0833** (2013.01 - US); **A61B 5/14546** (2013.01 - EP); **A61B 5/165** (2013.01 - EP); **A61B 5/18** (2013.01 - EP); **A61B 5/7264** (2013.01 - EP); **A61B 2503/10** (2013.01 - EP); **A61B 2503/22** (2013.01 - EP); **A61B 2560/0252** (2013.01 - US); **A61B 2560/0257** (2013.01 - US); **A61B 2562/0271** (2013.01 - US); **A61B 2562/18** (2013.01 - EP); **B63C 2011/021** (2013.01 - EP)

Citation (search report)  
• [I] US 2018001980 A1 20180104 - HULBERT CHRISTOPHER B [US]  
• [I] JP H05124592 A 19930521 - SHIMADZU CORP  
• [A] EP 2075189 A1 20090701 - VIANINI MATTEO [IT]  
• [A] US 2008139908 A1 20080612 - KURTH CHARLES DEAN [US]  
• [A] US 9014772 B2 20150421 - YAMAGUCHI HIROSHI [JP], et al  
• [A] US 6671529 B2 20031230 - CLAURE NELSON R [US], et al  
• See also references of WO 2019213783A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2019213783 A1 20191114**; AU 2019264885 A1 20201126; CA 3077122 A1 20191114; CA 3077122 C 20211012; CN 112188865 A 20210105; EP 3790467 A1 20210317; EP 3790467 A4 20220608; EP 3790467 B1 20231206; EP 3790467 C0 20231206; US 2021161404 A1 20210603

DOCDB simple family (application)  
**CA 2019050637 W 20190510**; AU 2019264885 A 20190510; CA 3077122 A 20190510; CN 201980031629 A 20190510; EP 19799916 A 20190510; US 201917046704 A 20190510